

Title (en)
PYROPHOSPHATE TYPE MATERIAL, PROCESS FOR PREPARING SUCH A MATERIAL AND USE FOR BONE REPAIR

Title (de)
PYROPHOSPHATMATERIAL, VERFAHREN ZUR HERSTELLUNG EINES DERARTIGEN MATERIALS UND VERWENDUNG ZUR KNOCHENREPARATUR

Title (fr)
MATÉRIAU DE TYPE PYROPHOSPHATE, PROCÉDÉ DE PRÉPARATION D'UN TEL MATÉRIAU ET UTILISATION POUR LA RÉPARATION OSSEUSE

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Application
EP 15787255 A 20150929

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Abstract (en)
[origin: WO2016051063A1] The invention relates to a material, especially a glassy material of pyrophosphate type, corresponding to the general formula (I): $\{[(M^{2+})_1 - x(R^+)_{2x}]_2[(P_2O_7^{4-})_1 - y(PO_4^{3-})_{4y/3}]\}_n(H_2O)$ in which x and y are positive rational numbers each between 0 and 0.8; n is such that the weight percentage of water in the material is greater than 0 and less than or equal to 95; M²⁺ represents a bivalent ion of a metal selected from calcium, magnesium, strontium, copper, zinc, cobalt, manganese and nickel, or any mixture of such bivalent ions and R⁺ represents a monovalent ion of a metal selected from potassium, lithium, sodium, and silver, or any mixture of such monovalent ions. This material in particular proves quite advantageous for the manufacture of bone replacements or prosthesis coatings.

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